

P.O. Box 2786 Chicago, Illinois 60690-2786 (312) 357-1313

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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art

Unit:

1633

Application No.: 09/844,705

Filing Date:

April 27, 2001

First Named

Inventor:

Bosworth, Brad T., et. al.

Title:

Methods to Identify Swine Genetically

Resistant to F18 E. Coli Associated

Diseases

Attorney

Docket No.:

21419-91512

Examiner

Name:

Woitach, Joseph, T.

#### Certificate Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited via Express Mail EV 492 594 989 US with the United States Postal Service addressed to: Mail Stop Issue Fee,

Commissioner for Patents, P.O. Box 1450,

Alexandria, VA 22313-1450

on March 9, 2005.

# CORRECTION OF NOTICE OF ALLOWANCE AND FEE(S) DUE MAILED **JANUARY 6, 2005**

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Please amend the above-identified Notice of Allowance and Fee(s) Due on page 1 as follows:

Replace the incorrect filing date of July 26, 2001 with the correct date April 27, 2001. Please see enclosed filing receipt, and the return postcard and express mail receipt, and page 2 of the Notice of Allowability showing the correct April 27, 2001 date.

The Issue Fee was paid on February 8, 2005. (Copy enclosed).

Respectfully submitted,

O Marlin

Alice O. Martin

Reg. No. 35,601

BARNES & THORNBURG P.O. Box 2786 Chicago, Illinois 60690-2786 (312) 357-1313

Dated: March 9, 2005 CHDS01 AOM 262174v1

OIPE		÷
MAR 0 9 2005 (8)	Application No.	Applicant(s)
	00/944 705	BOSWORTH ET AL
Notice of Allowability	09/844,705 Examiner	BOSWORTH ET AL.  Art Unit
RADEMANN NOTICE OF Allowability		-
	Joseph T. Woitach	1632
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included
1. This communication is responsive to <u>9/23/2004</u> .		
2. The allowed claim(s) is/are 3,5 and 6.		
3. $\boxtimes$ The drawings filed on <u>27 April 2001</u> are accepted by the Ex	aminer.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority unda a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail December 1. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F.</li> </ul>	been received. been received in Application No uments have been received in this of this communication to file a reply ENT of this application.  Ited. Note the attached EXAMINER is reason(s) why the oath or declarate be submitted. In the Same of the submitted of the submitte	complying with the requirements  I'S AMENDMENT or NOTICE OF ation is deficient.  948) attached  Office action of a long in the front (not the back) of d).  must be submitted. Note the
Attachment(s)  1.  Notice of References Cited (PTO-892)  2.  Notice of Draftperson's Patent Drawing Review (PTO-948)  3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amendo	Patent Application (PTO-152) (PTO-413), te ment/Comment ent of Reasons for Allowance

MAR 0. 9 2005

Application/Control Number: 09/844,705

Art Unit: 1632

#### DETAILED ACTION

This application filed April 27, 2001 is a continuation of 09/443,766 filed November 19, 1999, now US Patent 6,596,923 (issued July 22, 2003) which claims benefit under 35 U.S.C. 120 to PCT/US98/10318, filed May 20, 1998, which claims benefit to provisional application 60/047,181, filed May 20, 1997.

Applicants' after final amendment filed September 23, 2004, has been received and entered. Claims 1, 2 and 4 have been canceled. Claims 3 and 5 have been amended. Claims 3, 5 and 6 are pending and currently under examination.

### Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The terminal disclaimer filed June 23, 2004, has been received and accepted. The filing of the disclaimer has obviated the obvious double patenting rejection over 6,596,923. With respect to the second double patenting rejection, Applicants' previous arguments and the amendments to the claims has sufficiently distinguished the instant claimed method of identifying and breeding swine resistant to toxigenic *E. coli* from the methods of increasing weight gain as claimed in 6,355,859.

As indicated in the previous office actions the claims are free of the art of record because while the art indicates that cell surface receptors on intestinal cells are the target molecules for *E. coli* colonization, and that the glycosylation on said receptors may be important in determining the ability of a particular *E. coli* to colonize the intestine, the art fails to specifically teach that an

Art Unit: 1632

adenine at position 307 of the open reading frame of alpha (1,2) fucosyltransferase (FUT1) (SEQ ID NO: 12) can be correlated with resistance to *E. coli* strain F18 and possibly with the subsequent associated diseases. The amendment to the claims and Applicants' arguments have been fully considered and are found sufficient to address the remaining rejections of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Woitach whose telephone number is (571) 272-0739.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached at (571) 272-0734.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group analyst Dianiece Jacobs whose telephone number is (571) 272-0532.

Joseph T. Woitach

MESTAROTAN

Joe Water PU1632



ventor: Brad Bosworth and Peter Vögeli

Title: METHODS TO IDENTIFY SWINE

GENETICALLY RESISTANT TO F18 E. COLI

ASSOCIATED DISEASES Filing Date: April 27, 2001 Atty Docket No. 21419/91512

The following was sent to the United States Patent and Trademark Office

• Utility Patent Application Transmittal Form

• Specification (22 pages)

• Copy of Declaration from Patent App. No. 09/443,776

Mailed via Express Mail on April 27, 2001

Alice O. Martin

Reg. No. 35,601

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09/844705



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# United States Patent and Trademark Office

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/844,705	04/27/2001	1633.	0.00	21419/91512		2	· 1

**CONFIRMATION NO. 2430** 

Page 1 of 4

23644 BARNES & THORNBURG 2600 CHASE PLAZA 10 LASALLE STREET CHICAGO, IL 60603

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Date Mailed: 06/15/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

#### Applicant(s)

Brad T. Bosworth, Cambridge, UNITED KINGDOM; Peter Vogeli, Zurich, SWITZERLAND;

#### Domestic Priority data as claimed by applicant

THIS APPLICATION IS A DIV OF 09/443,766 11/19/1999 WHICH CLAIMS BENEFIT OF 60/047,181 05/20/1997

#### Foreign Applications

PCT/US98/01318 05/20/1998

If Required, Foreign Filing License Granted 06/14/2001

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

Methods to identify swine genetically resistant to F18 E. coli associated diseases



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Data entry by: YOSEPH, LETEYESUS

Team : OIPE

Date: 06/15/2001



# LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

JAN 1 0 2005

EXAMINER

WOITACH, JOSEPH T

ART UNIT

PAPER NUMBER

1632

DATE MAILED: 01/06/2005

# BARNES & THORNBU

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

09/844,705 0/326/2001 Brad T. Bosworth 21419/91512 2430

TITLE OF INVENTION: METHODS TO IDENTIFY SWINE GENETICALLY RESISTANT TO F18 E. COLI ASSOCIATED DISEASES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400	\$300	\$1700	04/06/2005	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 3

FOR: NOR

Due Date: 4

Final Date:

PTOL-85 (Rev. 12/04) Approved for use through 04/30/2007.

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

ATTORNEY DOCKET NO. CONFIRMATION NO. 07/26/2001 09/844 705 Brad T. Bosworth 21419/91512 2430 01/06/2005 **EXAMINER** 23644 BARNES & THORNBURG WOITACH, JOSEPH T P.O. BOX 2786 CHICAGO, IL 60690-2786 ART UNIT PAPER NUMBER 1632

DATE MAILED: 01/06/2005

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 450 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 450 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.